Compilation, models and algorithms for the on-line optimization of problems dealing with preferences and/or uncertainties

Helene Fargier

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Helene Fargier (IRIT)
- Compilation, algorithmic decision theory, uncertainty

Christian Artigues (LAAS)
- Combinatorial optim., constraint/integer programming, scheduling

Romain Guillaume (IRIT-UT2J)
- Robust optimization, scheduling, supply chain planning

Jerome Mengin (IRIT-UT3)
- Compilation, learning, preferences

Guillaume Poveda (Airbus)
- Combinatorial optimisation, hybrid ML/optimisation

Cedric Pralet (ONERA)
- Operations research, planning, space applications

Florent Teichteil-Koenigsbuch (Airbus)
- Planning and scheduling, hybrid ML / search
Nicolas Schmid (2 years post doc):
- Realization of the SALADD compiler (CSP to tree of MDDs)

Louis Riviere (Ph. D, 11 dec 2023):
- Compact representations of solution sets for scheduling under uncertainty

Trong-Hieu Tran (Ph. D, 13 dec 2023)
- Hybrid optimization approaches for vehicle routing problems with profits

Pierre Pomeret Coquot (Ph. D, 13 dec 2023)
- Individual and strategic decision under uncertainty: an algebraic and formal approach
Main publications:
- AAMAS’21, AMAI, ECAI 2023 (KC for preference languages)
- CP’22 (the SALADD compiler)
- KR20, Types 21, Ecsquaru 21 and 23, IJAR, ITP23 (game theory)
- Ecsqaru 2023 (decision theory)
- Annals of Operation. Research., EJOR (scheduling under uncertainty)
- Fuzz’IEEE 20, 21, IJAR 20, 23, EJOR, FSS 23 (robust optimization)
- ICORES21, IJCAI-ECAI 2022, CP 23, CPAIOR 23 EJOR
  (hybrid methods for complex scheduling problems)
- ICAPS 23 (solving scheduling problems with cp and graph neural nets)

The SALADD compiler

International autumn school (ACP – ANITI- GDR RO and IA)

Collaborations ISG Tunis, Wroclaw University, ANU

Beyond KC@ANITI: the HEROIC ANITI chair: Hybridizing Learning, Search and combinatorial Optimization for Industrial Decision-making